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## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

## Listing of Claims:

(Currently amended) A method of fabricating a cartilage implant comprising:
embedding chondrocytes or mesenchymal stem cells in a three-dimensional substrate, the
substrate containing randomly rewound α-helical monomers [[of]] <u>from partially digested</u> type I
collagen; and

growing the chondrocytes or mesenchymal stem cells in the substrate; thereby producing a cartilage implant.

- 2. (Currently amended) The method of claim 1, wherein the substrate further contains randomly rewound α-helical monomers [[of]] from partially digested type II collagen.
  - 3. (Canceled)
  - 4. (Canceled)
  - 5. (Canceled)
- 6. (Original) The method of claim 2, wherein the chondrocytes or mesenchymal stem cells, the type I collagen, and the type II collagen are prepared from two or three different animal sources.
- 7. (Currently amended) The method of claim 2, wherein, during the growing step, the chrondrocytes or mesenchymal stem cells and the substrate are placed in a rotating and oscillating vessel.

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8. (Canceled)

- 9. (Original) The method of claim 1, wherein the chondrocytes or mesenchymal stem cells and the type I collagen are each prepared from a different animal source.
- 10. (Currently amended) The method of claim 1, wherein, during the growing step, the chrondrocytes or mesenchymal stem cells and the substrate are placed in a rotating and oscillating vessel.
- 11. (Currently amended) A method of fabricating a cartilage implant comprising: embedding chondrocytes in a three-dimensional substrate, the substrate containing randomly rewound α-helical monomers [[of]] from partially digested type I collagen; and growing the chondrocytes in the substrate; thereby producing a cartilage implant.
- 12. (Currently amended) The method of claim 11, wherein the substrate further contains randomly rewound α-helical monomers [[of]] <u>from partially digested</u> type II collagen.
  - 13. (Canceled)
  - 14. (Canceled)
  - 15. (Canceled)

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16. (Currently amended) A cartilage implant comprising:

chondrocytes; and

a three-dimensional matrix, the matrix containing randomly rewound  $\alpha$ -helical monomers [[of]] from partially digested type I collagen;

wherein the chondrocytes are embedded in the matrix.

- 17. (Currently amended) The cartilage implant of claim 16, wherein the matrix further contains randomly rewound  $\alpha$ -helical monomers [[of]] from partially digested type II collagen.
  - 18. (Canceled)
  - 19. (Canceled)
  - 20. (Canceled)
- 21. (Original) The cartilage implant of claim 17, wherein the chondrocytes, the type I collagen, and the type II collagen are prepared from two or three different animal sources.
  - 22. (Canceled)
- 23. (Currently amended) The cartilage implant of claim [[22]] 16, wherein the chondrocytes and the type I collagen are each prepared from a different animal source
- 24. (Original) The cartilage implant of claim 16, wherein the chondrocytes and the type I collagen are each prepared from a different animal source.